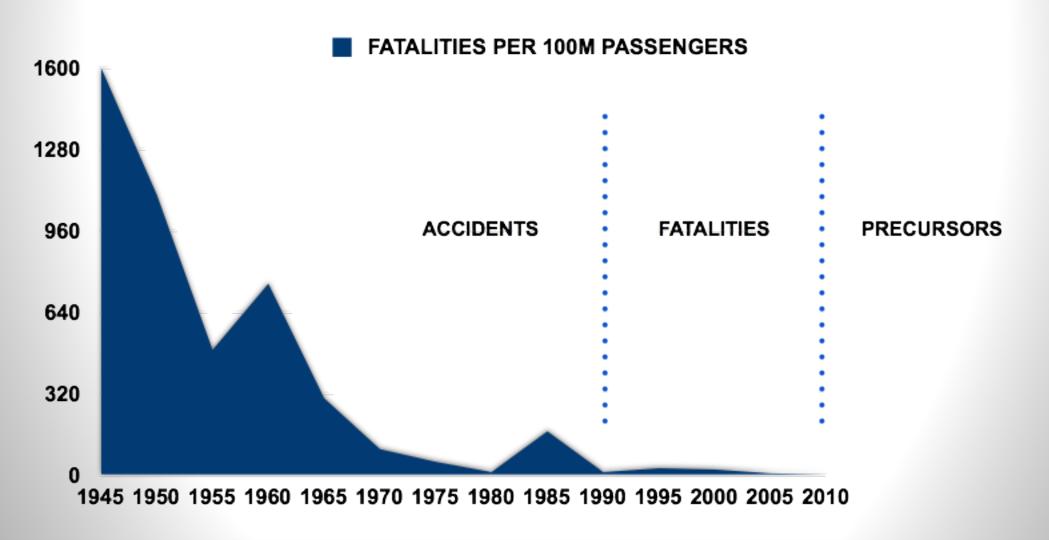
IMPROVING AVIATION SAFETY: AN AIR TRAFFIC CONTROL PERSPECTIVE

Joseph Teixeira, Vice President, Safety & Technical Training



MAKING THE BEST BETTER





INCIDENTS ARE RARE BUT IMPORTANT



- Incidents provide valuable data that we use to improve safety in the NAS
- Incidents are investigated and analyzed
- Corrective actions are taken to mitigate risk



DATA DATA DATA



- Waiting for incidents to become known is reactive
- Our Safety Management System is proactive
- We value and need more data







I. VALUE EMPLOYEE SAFETY CONTRIBUTIONS

- Voluntary Safety
 Reporting Programs
 - ATSAP
 - T-SAP
- Partnership for Safety





II. IMPROVE TECHNOLOGY TO GATHER DATA

 TARP Software — provides an integral replay that displays events and their associated closest proximity

- CEDAR Software facilitates reporting by managers
- DALR Software enables replays with voice
- OEDP OI Detection Program (En Route)







III. ANALYZE AND IDENTIFY RISK

- Identify Top 5 Hazards via Risk Analysis Process (RAP)
- Improve Quality Assurance,
 Quality Control and Reporting
- Align Analysis Coding across Multiple Data Sources
- Identify Trends













IV. EMBRACE CORRECTIVE ACTION

- Create an Adaptive Culture
- Become a Learning Organization
- Identify the Top 5
- Issue Corrective Action Plans IMPROVE



















OUR SAFETY MANAGEMENT SYSTEM



















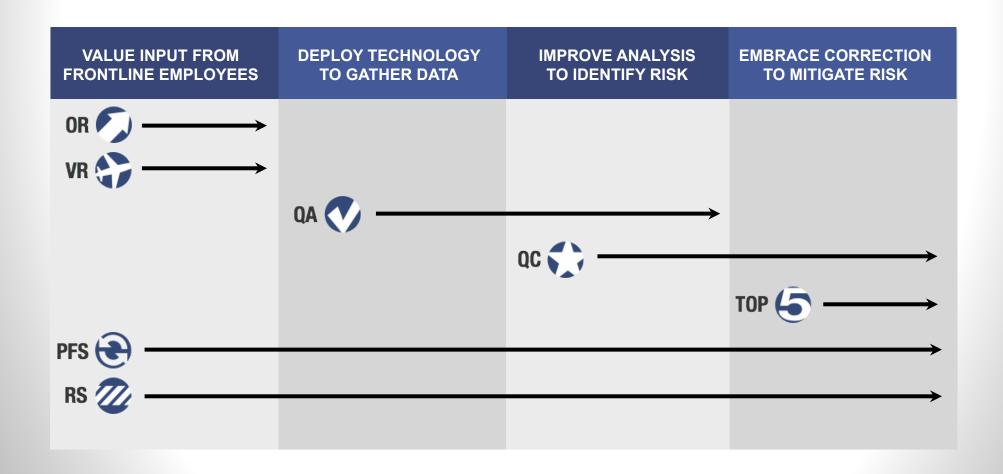


OUR SAFETY MANAGEMENT SYSTEM





SAFETY STRATEGY



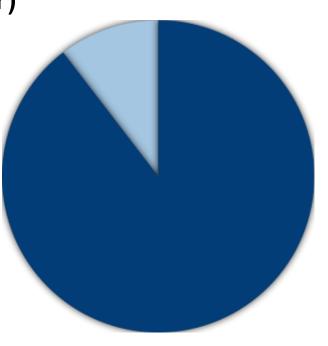


REACTIVE AND PROACTIVE DATA

REACTIVE (LEGACY)

5,000

Approximate operational incidents over 3 years



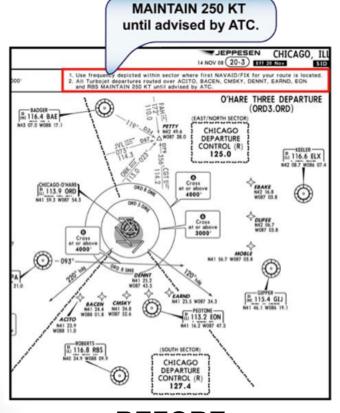
PROACTIVE (SMS)

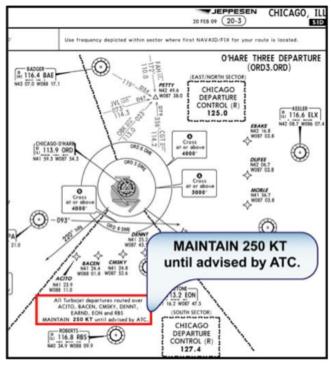
58,000

- 58,000 Voluntary Reports
 - 160 ATSAP Positives
 - 91 Corrective Action Requests
 - 60% of Controllers have filed a report
 - 300-350 reports/week
- Top 5 Hazards
 - 19 Corrective Actions



ATSAP POSITIVE: DEPARTURE NAVIGATION CHART FIX



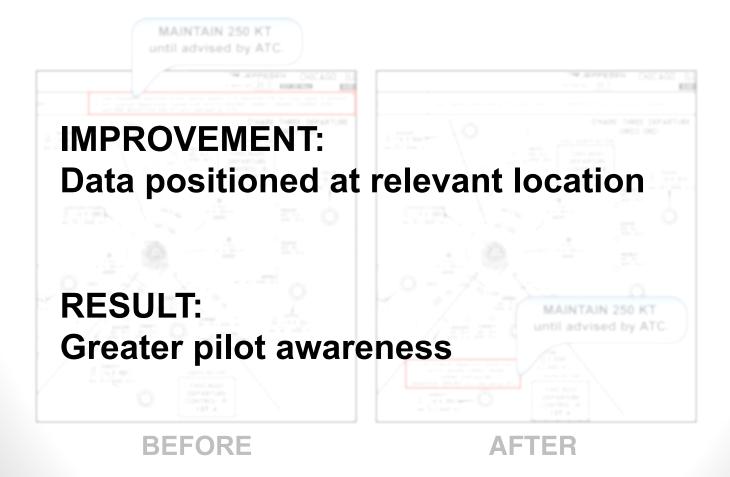


BEFORE

AFTER

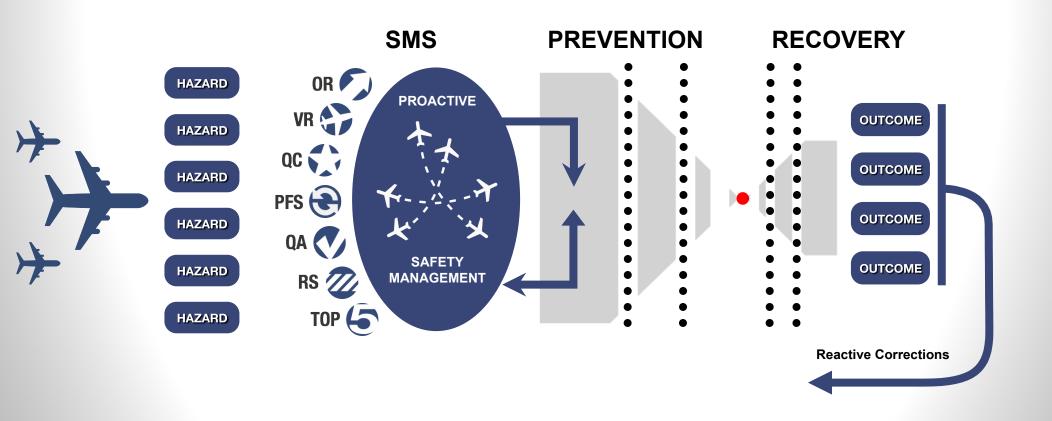


ATSAP POSITIVE: DEPARTURE NAVIGATION CHART FIX





PROACTIVE AND REACTIVE CONTROLS





2013 TOP **(**



Recovery



Traffic Advisories/Safety Alerts



Failure to Monitor Initial Departure Heading



Similar Sounding Call Signs



Conflicting Procedures





www.faa.gov/go/atosafety

